If a warning light turns on or a warning buzzer sounds

Calmly perform the following actions if any of the warning lights comes on or flashes. If a light comes on or flashes, but then goes off, this does not necessarily indicate a malfunction in the system. However, if this continues to occur, have the vehicle inspected by your Lexus dealer.

Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details
 (U.S.A.)  (Canada)	**Brake system warning light and warning buzzer (red indicator)*** • Low brake fluid • Malfunction in the brake system This light also comes on when the parking brake is not released. If the light turns off after the parking brake is fully released the system is operating normally.

*: Brake system warning buzzer:

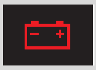
When there is a possible problem that could affect braking performance, the warning light will come on and a warning buzzer will sound.

Parking brake engaged warning buzzer:

→P. 599

Stop the vehicle immediately.

The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details
	**Charging system warning light** Indicates a malfunction in the vehicle's charging system
	**Low engine oil pressure warning light** Indicates that the engine oil pressure is too low
	**High coolant temperature warning light** Changes from a flashing to a solid light when the engine coolant temperature increases

Have the vehicle inspected by your Lexus dealer immediately.

Failure to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning light	Warning light/Details
 (U.S.A.)  (Canada)	**Malfunction indicator lamp** Indicates a malfunction in: • The hybrid system; • The electronic engine control system; • The electronic throttle control system; or • The hybrid transmission control system
	**SRS warning light** Indicates a malfunction in: • The SRS airbag system; • The front passenger occupant classification system; or • The seat belt pretensioner system
 (U.S.A.)  (Canada)	**ABS warning light** Indicates a malfunction in: • The ABS; or • The brake assist system
	**Electric power steering system warning light (warning buzzer)** Indicates a malfunction in the EPS system

Warning light	Warning light/Details
PCS (Flashes)	**Pre-collision system warning light (if equipped)** Indicates a malfunction in the pre-collision system
	**Slip indicator light** Indicates a malfunction in: • Vehicle stability control; • Traction control; • Hill-start assist control
	**Brake system warning light (yellow indicator)** Indicates a malfunction in: • The regenerative brake system; or • The electronically controlled brake system
	**Automatic headlight leveling system warning light (if equipped)** Indicates a malfunction in the automatic headlight leveling system

Follow the correction procedures.

After taking the specified steps to correct the suspected problem, check that the warning light goes off.

Warning light	Warning light/Details	Correction procedure
	**Open door warning light (warning buzzer)*1** Indicates that a door is not fully closed	Check that all the doors are closed.
	**Low fuel level warning light** Indicates remaining fuel is approximately 1.8 gal. (6.8 L, 1.5 Imp.gal.) or less	Refuel the vehicle.
	**Seat belt reminder light (warning buzzer)*2** Warns the driver and/or front passenger to fasten their seat belts.	Fasten the seat belt. If the front passenger's seat is occupied, the front passenger's seat belt also needs to be fastened to make the warning light (warning buzzer) off.
	**Master warning light** The warning light comes on and flashes to indicate that the master warning system has detected a malfunction.	→P. 593

Warning light	Warning light/Details	Correction procedure
	**Tire pressure warning light**	
	When the light comes on: Low tire inflation pressure	Adjust the tire inflation pressure.
	When the light comes on after blinking for 1 minute: Malfunction in the tire pressure warning system	Have the system checked by your Lexus dealer.

*1: Open door warning buzzer:

→P. 597

*2: Driver's seat belt buzzer:

The driver's seat belt buzzer sounds to alert the driver that his or her seat belt is not fastened. Once the "POWER" switch is turned to ON mode, the buzzer sounds for 6 seconds. If the vehicle reaches a speed of 12 mph (20 km/h), the buzzer sounds once. If the seat belt is still unfastened after 30 seconds, the buzzer will sound intermittently for 10 seconds. Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds.

Front passenger's seat belt buzzer:

The front passenger's seat belt buzzer sounds to alert the front passenger that his or her seat belt is not fastened. The buzzer sounds once if the vehicle reaches a speed of 12 mph (20 km/h). If the seat belt is still unfastened after 30 seconds, the buzzer will sound intermittently for 10 seconds. Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds.

- **SRS warning light**

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensors, curtain shield airbag sensors, driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system, "AIR BAG ON" indicator light, "AIR BAG OFF" indicator light, front passenger's seat belt buckle switch, seat belt pretensioner assemblies, inflators, interconnecting wiring and power sources. (→P. 119)

- **Front passenger detection sensor, seat belt reminder and warning buzzer**

  - If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash and the warning buzzer to sound even if a passenger is not sitting in the seat.
  - If a cushion is placed on the seat, the sensor may not detect a passenger, and the warning light may not operate properly.

- **Electric power steering system warning light (warning buzzer)**

The electric power steering system warning light comes on and the warning buzzer sounds when the voltage is low or the voltage drops.

- **If the malfunction indicator lamp comes on while driving**

First check the following:

  - Is the fuel tank empty?
    If it is, fill the fuel tank immediately.
  - Is the fuel tank cap loose?
    If it is, tighten it securely.

The malfunction indicator lamp will go off after several driving trips.
If the malfunction indicator lamp does not go off even after several trips, contact your Lexus dealer as soon as possible.

■ **Changing the engine oil (U.S.A. only)**

Make sure to reset the oil change system. (→P. 502)

■ **When the tire pressure warning light comes on**

Check the tire inflation pressure and adjust to the appropriate level. Pushing the tire pressure warning reset switch will not turn off the tire pressure warning light.

■ **The tire pressure warning light may come on due to natural causes**

The tire pressure warning light may come on due to natural causes such as natural air leaks and tire inflation pressure changes caused by temperature. In this case, adjusting the tire inflation pressure will turn off the warning light (after a few minutes).

■ **When a tire is replaced with a spare tire**

The compact spare tire is not equipped with a tire pressure warning valve and transmitter. If a tire goes flat, the tire pressure warning light will not turn off even though the flat tire has been replaced with the spare tire. Replace the spare tire with the repaired tire and adjust the tire inflation pressure. The tire pressure warning light will go off after a few minutes.

If the tire pressure warning system is not functioning

The tire pressure warning system will be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If tires not equipped with tire pressure warning valves and transmitters are used
- If the ID code on the tire pressure warning valves and transmitters is not registered in the tire pressure warning computer
- If the tire inflation pressure is 73 psi (500 kPa, 5.1 kgf/cm^2 or bar) or higher

The tire pressure warning system may be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If electronic devices or facilities using similar radio wave frequencies are nearby
- If a radio set at a similar frequency is in use in the vehicle
- If a window tint that affects the radio wave signals is installed
- If there is a lot of snow or ice on the vehicle, particularly around the wheels or wheel housings
- If non-genuine Lexus wheels are used (Even if you use Lexus wheels, the tire pressure warning system may not work properly with some types of tires.)
- If tire chains are used

■ **If the tire pressure warning light comes on after flashing frequently for 1 minute**

If the tire pressure warning light comes on after flashing frequently for 1 minute when the “POWER” switch is turned to ON mode, have it checked by your Lexus dealer.

■ **Customization that can be configured at Lexus dealer**

The vehicle speed linked seat belt reminder buzzer can be disabled.
(Customizable features →P. 684)
However, Lexus recommends that the seat belt reminder buzzer be operational to alert the driver and front passenger when seat belts are not fastened.

CAUTION

- **If both the ABS and the brake system warning lights remain on**

  Stop your vehicle in a safe place immediately and contact your Lexus dealer. The vehicle will become extremely unstable during braking, and the ABS system may fail, which could cause an accident resulting in death or serious injury.

- **When the electric power steering system warning light comes on**

  The steering wheel may become extremely heavy.
  If the steering wheel becomes heavier than usual when operating, hold firmly and operate using more force than usual.

- **If the tire pressure warning light comes on**

  Be sure to observe the following precautions. Failure to do so could cause a loss of vehicle control and result in death or serious injury.

  - Stop your vehicle in a safe place as soon as possible. Adjust the tire inflation pressure immediately.
  - If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Check the tires. If a tire is flat, change it with the spare tire and have the flat tire repaired by the nearest Lexus dealer.
  - Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.

- **If a blowout or sudden air leakage should occur**

  The tire pressure warning system may not activate immediately.

CAUTION

Maintenance of the tires

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).

Your vehicle has also been equipped with a TPMS (tire pressure warning system) malfunction indicator to indicate when the system is not operating properly. The TPMS (tire pressure warning system) malfunction indicator is combined with the low tire pressure telltale (tire pressure warning light). When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

CAUTION

TPMS (tire pressure warning system) malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS (tire pressure warning system) from functioning properly. Always check the TPMS (tire pressure warning system) malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS (tire pressure warning system) to continue to function properly.

NOTICE

- **Precaution when installing a different tire**

  When a tire of a different specification or maker is installed, the tire pressure warning system may not operate properly.

If a warning message is displayed

If a warning is shown on the multi-information display, stay calm and perform the following actions:



1 Master warning light

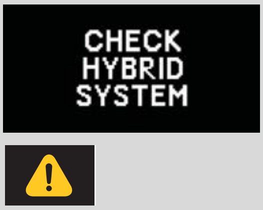
The master warning light also comes on or flashes in order to indicate that a message is currently being displayed on the multi-information display.

2 Multi-information display

If any of the warning light comes on again after the following actions have been performed, contact your Lexus dealer.

Stop the vehicle immediately.

A buzzer sounds and a warning message is shown on the multi-information display. The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning message	Details
	Indicates a malfunction in the hybrid system

Have the vehicle inspected immediately.

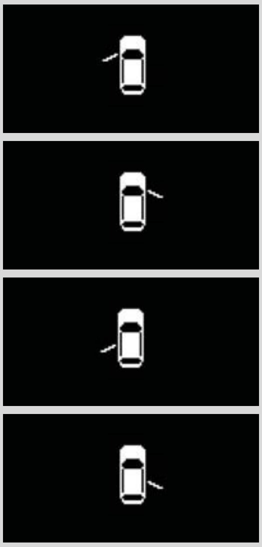
A buzzer sounds and a warning message is shown on the multi-information display. Failure to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer.

Warning message	Details
 	**Indicates a malfunction in the P position control system** In this situation, there is a possibility that the parking lock mechanism will not work. When parking, park the vehicle on a flat surface and apply the parking brake securely. Also, it may not be possible to turn the “POWER” switch off. If this happens, applying the parking brake will enable the switch to be turned off.
  (Flashes) (If equipped)	**Indicates a malfunction in the LED headlight system**

Warning message	Details
  (Flashes)  (If equipped)	**Indicates a malfunction in the pre-collision system**
  (If equipped)	**Indicates a malfunction in the intuitive parking assist** The malfunctioning assist-sensor is flashing.
 	**Indicates a malfunction in the radar cruise control system (if equipped) or the cruise control system** Press the "ON-OFF" button once to deactivate the system, and then press the button again to reactivate the system.

Follow the correction procedures.

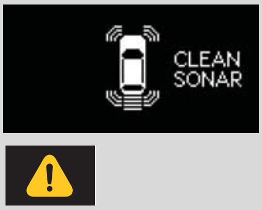
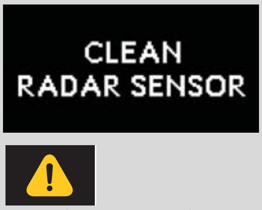
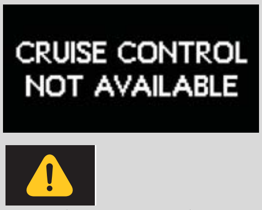
A buzzer sounds and a warning message is shown on the multi-information display. After taking the specified steps to correct the suspected problem, check that the warning message goes off.

Warning message	Details	Correction procedure
 	**Indicates that one or more of the doors is not fully closed** The system also indicates which doors are not fully closed. If the vehicle reaches a speed of 3 mph (5 km/h), a buzzer sounds to indicate that the door(s) are not yet fully closed.	Make sure that all the doors are closed.

Warning message	Details	Correction procedure
	**Indicates that the hood is not fully closed**	Close the hood.
 	**Indicates that the back door is not fully closed** If the vehicle reaches a speed of 3 mph (5 km/h), a buzzer sounds to indicate that the back door is not yet fully closed.	Close the back door.

Warning message	Details	Correction procedure
  (Flashes)	Indicates that the moon roof is not fully closed (with the “POWER” switch off, and the driver’s door open)	Close the moon roof.
   (Flashes)	Indicates, if the vehicle reaches a speed of 3 mph (5 km/h), that the parking brake is still engaged	Release the parking brake.

Warning message	Details	Correction procedure
OIL MAINTENANCE REQUIRED SOON (U.S.A. only)	**Indicates that the engine oil is scheduled to be changed** Comes on approximately 4500 miles (7200 km) after the engine oil is changed. (The indicator will not work properly unless the oil maintenance data has been reset.)	Check the engine oil, and change if necessary. After changing the engine oil, the oil change system should be reset. (→P. 502)
OIL MAINTENANCE REQUIRED (U.S.A. only)	**Indicates that the engine oil should be changed** Comes on approximately 5000 miles (8000 km) after the engine oil is changed (and the oil maintenance data has been reset).	Have the engine oil and filter checked by your Lexus dealer. After changing the engine oil, the oil change system should be reset. (→P. 502)

Warning message	Details	Correction procedure
 (If equipped)	**Indicates that intuitive parking assist sensor is dirty or covered with ice**	Clean the sensor.
 (If equipped)	**Indicates that the radar cruise control sensor is dirty or covered with ice**	Clean the sensor.
 (If equipped)	**Indicates that the radar cruise control system is unable to judge vehicle-to-vehicle distance**	If the windshield wipers are on, turn them off or set them to either intermittent or slow mode.
 (Flashes) (If equipped)	**Indicates that your vehicle is nearing the vehicle ahead (in vehicle to vehicle distance control mode)**	Slow the vehicle by applying the brakes.

Warning message	Details	Correction procedure
BRAKE! PCS (Flashes) (If equipped)	**Indicates that there is a high possibility of a frontal collision, or that the pre-collision braking function is operating**	Slow the vehicle by applying the brakes.
HYBRID SYSTEM OVERHEAT	**Indicates that the hybrid system has overheated**	Stop and check. (→P. 640)
LOW TRACTION BATTERY CHARGE WHEN NOT IN N POSITION (Flashes)	**Indicates that the traction battery is low**	When stopping the vehicle for a long period of time, shift the shift position to P. The battery cannot be charged with the shift position in N.
TRACTION BATTERY PRESERVATION MODE RESTART AFTER SHIFTING THE P POSITION (Flashes)	**Indicates that the traction battery power has dropped because a long period of time has elapsed after shifting the shift position to N**	Restart the hybrid system when starting the vehicle.

Warning message	Details	Correction procedure
SHIFT TO P POSITION WHEN PARKED (Flashes)	**Indicates that the driver's door was opened with the shift position in any position other than P**	Shift the shift position to P.
N POSITION (Flashes)	**Indicates that the accelerator pedal is depressed while the shift position is in N.**	Release the accelerator pedal and shift the shift position to D or R.
EV MODE CURRENTLY NOT AVAILABLE	**Indicates that the EV drive mode is not available*** The reason the EV drive mode is not available (the vehicle is idling, battery charge is low, speed is higher than the EV drive mode operating speed range, accelerator pedal is depressed too much) may be displayed.	Use the EV drive mode when it becomes available.

Warning message	Details	Correction procedure
EV MODE DEACTIVATED  (Flashes 3 times)	**Indicates that the EV drive mode has been automatically cancelled*** The reason the EV drive mode is not available (the battery charge is low, speed is higher than the EV drive mode speed range, accelerator pedal is depressed too much) may be displayed.	Drive the vehicle for a while.

*: For the EV drive mode operating conditions (→P. 174).

Follow the correction procedures.

A warning message is shown on the multi-information display. After taking the specified steps to correct the suspected problem, check that the warning message goes off.

Warning message	Details	Correction procedure
LOW WASHER FLUID	**Indicates that the washer fluid level is low**	Add washer fluid.
PCS TEMPORARILY NOT AVAILABLE PCS (If equipped)	**Indicates that the pre-collision system is not currently functional because the grille or the sensor is dirty** This message also appears when the pre-collision system is not functional due to over-heating.	• Check the grille and the sensor and clean them if they are dirty. • In case of overheating, the system will become functional once the system cools down.

Have the malfunction repaired immediately.

After taking the specified steps to correct the suspected problem, check that the warning message and light go off.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	—	  (Flashes)	The electronic key is not detected when an attempt is made to start the hybrid system.	Start the hybrid system with the electronic key present.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	3 times	KEY NOT DETECTED  (Flashes)	The electronic key was carried outside the vehicle and a door other than the driver's door was opened and closed while the "POWER" switch was in a mode other than off.	Bring the electronic key back into the vehicle.
			The electronic key was carried outside the vehicle and the driver's door was opened and closed while the shift position P was selected without turning off the "POWER" switch.	Turn the "POWER" switch off or bring the electronic key back into the vehicle.

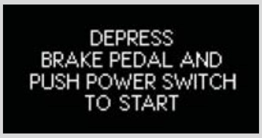
Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	Continuous	KEY NOT DETECTED TURN POWER OFF (Displayed alternately)  (Flashes)	An attempt was made to exit the vehicle with the electronic key and lock the doors without first turning the "POWER" switch off.	Turn the "POWER" switch off and lock the doors again.
Once	—	KEY NOT DETECTED  (Flashes)	An attempt was made to start the hybrid system without the electronic key being present, or the electronic key was not functioning normally. An attempt was made to drive when the regular key was not inside the vehicle.	Confirm that the electronic key is inside the vehicle.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Continuous	—	SHIFT TO P POSITION  (Flashes)	The driver's door was opened while any shift position other than P was selected without turning off the "POWER" switch.	Shift the shift position to P.
Continuous	Continuous	SHIFT TO P POSITION KEY NOT DETECTED (Displayed alternately)  (Flashes)	The electronic key was carried outside the vehicle and the driver's door was opened and closed while any shift position other than P was selected without turning off the "POWER" switch.	• Shift the shift position to P. • Bring the electronic key back into the vehicle.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	Con-tinuous	  (Flashes)	• An attempt was made to lock the doors using the smart access system with push-button start while the electronic key was still inside the vehicle. • An attempt was made to lock either front door by opening a door and put-ting the inside lock button into the lock position, then closing the door by pulling on the outside door handle with the electronic key still inside the vehicle.	Retrieve the elec-tronic key from the vehicle and lock the doors again.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	—	DEPRESS BRAKE PEDAL, TOUCH POWER SWITCH WITH KEY (Flashes)	• When the doors were unlocked with the mechanical key and then the “POWER” switch was pressed, the electronic key could not be detected in the vehicle. • The electronic key could not be detected in the vehicle even after the “POWER” switch was pressed two consecutive times.	Touch the electronic key to the “POWER” switch while depressing the brake pedal.
Once	—	SHIFT TO P POSITION TO START (Flashes)	An attempt was made to start the hybrid system with the shift position in N.	Shift the shift position to P and start the hybrid system.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
—	—		Power was turned off due to the automatic power off function.	Next time when starting the hybrid system, increase the engine speed slightly and maintain that level for approximately 5 minutes to recharge the 12-volt battery.
Once	—	 	The electronic key has a low battery.	Replace the electronic key battery. (→P. 539)

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	—	  (Flashes)	The driver's door was opened and closed with the "POWER" switch turned off and then the "POWER" switch was put in ACCESSORY mode twice without the hybrid system being started.	Press the "POWER" switch while depressing the brake pedal.
			During a hybrid system starting procedure in the event that the electronic key was not functioning properly (→P. 632), the "POWER" switch was touched with the electronic key.	Press the "POWER" switch within 10 seconds of the buzzer sounding.

- **Warning message in radar cruise mode**

  In the following cases, the warning message may not be displayed even if vehicle-to-vehicle distance decreases:

  - When your vehicle and the vehicle ahead are traveling at the same speed or the vehicle ahead is traveling more quickly than your vehicle
  - When the vehicle ahead is traveling at a very low speed
  - Immediately after cruise control speed is set
  - At the instant the accelerator pedal is depressed

- **After changing the engine oil (U.S.A. only)**

  Make sure to reset the oil maintenance data. (→P. 502)

If you have a flat tire

Remove the flat tire and replace it with the spare tire provided.

n Before jacking up the vehicle

l Stop the vehicle on a hard, flat surface.

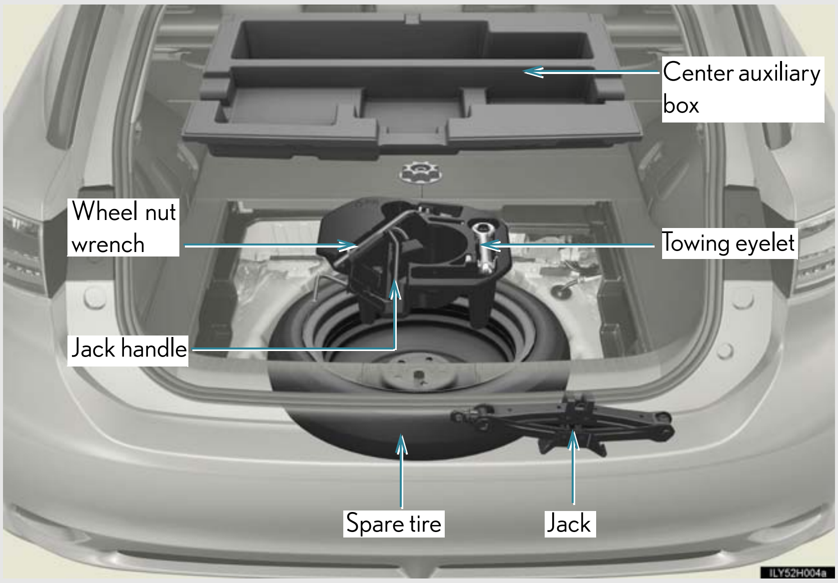
l Set the parking brake.

l Shift the shift position to P.

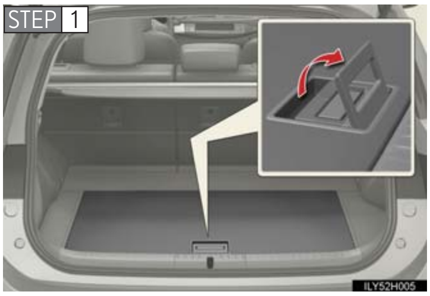
l Stop the hybrid system.

l Turn on the emergency flashers.

n Location of the spare tire, jack and tools



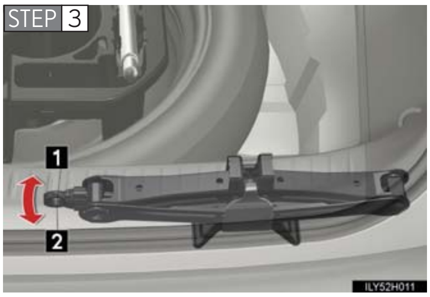
Taking out the jack



Remove the center deck board.



Remove the center auxiliary box.



Take out the jack.

1 For loosening

2 For tightening

Taking out the spare tire

STEP 1 Remove the center deck board and center auxiliary box. (See "Taking out the jack" for details.)

STEP 2



Loosen the center fastener that secures the spare tire.

Replacing a flat tire

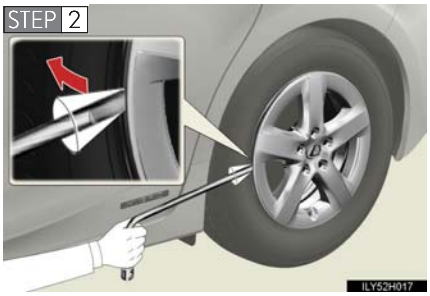
STEP 1



Chock the tires.

Flat tire		Wheel chock positions
Front	Left-hand side	Behind the rear right-hand side tire
	Right-hand side	Behind the rear left-hand side tire
Rear	Left-hand side	In front of the front right-hand side tire
	Right-hand side	In front of the front left-hand side tire

STEP 2



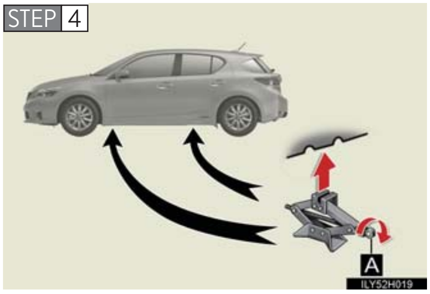
For vehicles with 15 inch wheels, remove the wheel ornament using the wrench.

To protect the wheel ornament, place a rag between the wrench and the wheel ornament.

STEP 3



Slightly loosen the wheel nuts (one turn).

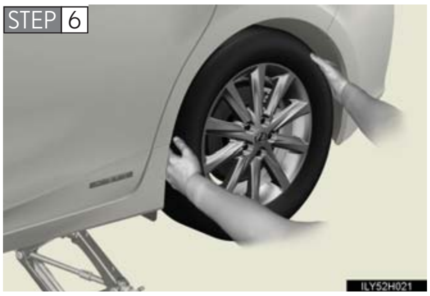


Turn the tire jack portion "A" by hand until the notch of the jack is in contact with the jack point.

The jack point guides are located under the rocker panel. They indicate the jack point positions.



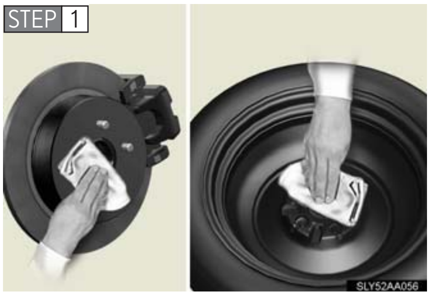
Raise the vehicle until the tire is slightly raised off the ground.



Remove all the wheel nuts and the tire.

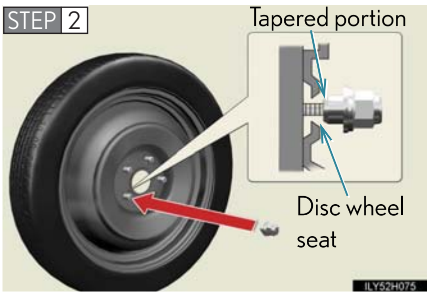
When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.

Installing the spare tire



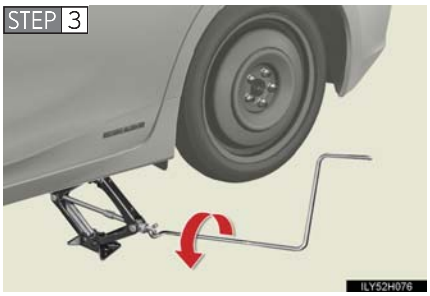
Remove any dirt or foreign matter from the wheel contact surface.

If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, causing the tire to come off.

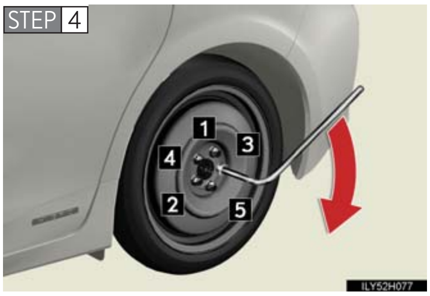


Install the spare tire and loosely tighten each wheel nut by hand by approximately the same amount.

Tighten the wheel nuts until the tapered portion comes into loose contact with the disc wheel seat.



Lower the vehicle.

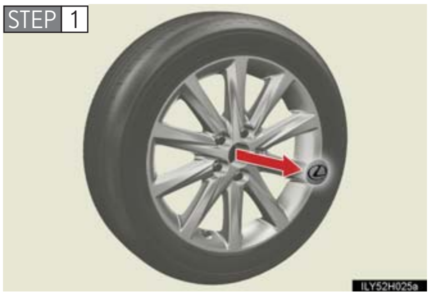


Firmly tighten each wheel nut two or three times in the order shown in the illustration.

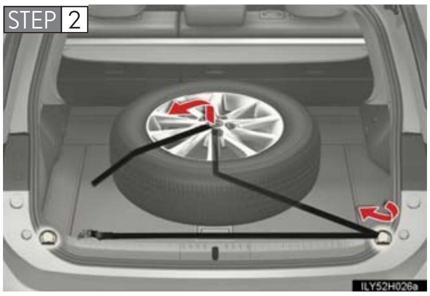
Tightening torque:
76 ft•lbf (103 N•m, 10.5 kgf•m)

STEP 5 Stow the flat tire, tire jack and all tools.

Stowing the flat tire

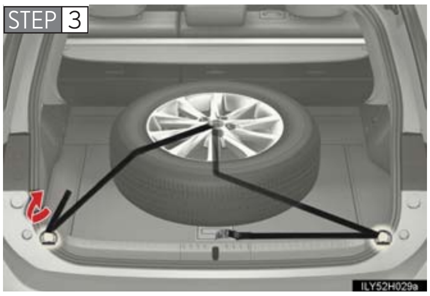


Vehicles with a 16 or 17 inch wheel: Before stowing the flat tire, remove the center wheel ornament by pushing from the reverse side.



Place the flat tire on the deck board, and pass the belt through the lower-right cargo hook and then through the hole in the center of the tire.

STEP 3



Pass the belt through the lower-left cargo hook.

STEP 4



Pass the belt through the buckle and secure the tire firmly. Check that the belt is securely held by the buckle.

The belt cannot be fastened securely if the buckle is facing the wrong direction.

■ **The compact spare tire**

- The compact spare tire is identified by the label "TEMPORARY USE ONLY" on the tire sidewall.
  Use the compact spare tire temporarily, and only in an emergency.
- Make sure to check the tire inflation pressure of the compact spare tire. (→P. 661)

■ **After completing the tire change**

The tire pressure warning system must be reset. (→P. 520)

When using the compact spare tire

As the compact spare tire is not equipped with a tire pressure warning valve and transmitter, low inflation pressure of the spare tire will not be indicated by the tire pressure warning system. Also, if you replace the compact spare tire after the tire pressure warning light comes on, the light remains on.

If you have a flat front tire on a road covered with snow or ice

Install the compact spare tire on one of the rear wheels of the vehicle. Perform the following steps and fit tire chains to the front tires:

STEP 1 Replace a rear tire with the compact spare tire.

STEP 2 Replace the flat front tire with the tire removed from the rear of the vehicle.

STEP 3 Fit tire chains to the front tires.

CAUTION

When using the compact spare tire

- Remember that the spare tire provided is specifically designed for use with your vehicle. Do not use your spare tire on another vehicle.
- Do not use more than one spare tires simultaneously.
- Replace the spare tire with a standard tire as soon as possible.
- Avoid sudden acceleration, deceleration and braking, as well as sharp cornering.

When storing the compact spare tire

Be careful not to catch fingers or other body parts between the compact spare tire and the body of the vehicle.

CAUTION

When the compact spare tire is attached

The vehicle speed may not be correctly detected, and the following systems may not operate correctly:

- ABS & Brake assist
- VSC
- TRAC
- Cruise control (if equipped)
- Dynamic radar cruise control (if equipped)
- Pre-collision system (if equipped)
- EPS
- Rear view monitor system (if equipped)
- Intuitive parking assist (if equipped)
- Navigation system (if equipped)

CAUTION

Speed limit when using the compact spare tire

Do not drive at speeds in excess of 50 mph (80 km/h) when a compact spare tire is installed on the vehicle.

The compact spare tire is not designed for driving at high speeds. Failure to observe this precaution may lead to an accident causing death or serious injury.

Using the tire jack

Improper use of the tire jack may cause the vehicle to suddenly fall off the jack, leading to death or serious injury.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire. Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the jack point.
- Do not put any part of your body under the vehicle while it is supported by the jack.
- Do not start or run the hybrid system while your vehicle is supported by the jack.
- Do not raise the vehicle while someone is inside.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Use a jack stand if it is necessary to get under the vehicle.

Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

CAUTION

■ **Replacing a flat tire**

Observe the following precautions to reduce the risk of death or serious injury:

- Do not touch the disc wheels or the area around the brakes immediately after the vehicle has been driven.
  After the vehicle has been driven the disc wheels and the area around the brakes will be extremely hot. Touching these areas with hands, feet or other body parts while changing a tire, etc. may result in burns.
- Have the wheel nuts tightened with a torque wrench to 76 ft•lbf (103 N•m, 10.5 kgf•m) as soon as possible after changing wheels.
- When installing a tire, only use wheel nuts that have been specifically designed for that wheel.
- If there are any cracks or deformations in the bolt screws, nut threads or bolt holes of the wheel, have the vehicle inspected by your Lexus dealer.

Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.

■ **When installing the wheel nuts**

Be sure to install the wheel nuts with the tapered end facing inward. (→P. 535)

CAUTION

- **After using the tools and jack**

  Before driving, make sure all the tools and jack are securely in place in their storage location to reduce the possibility of personal injury during a collision or sudden braking.

- **When stowing the flat tire**

  - Make sure the rear seatbacks are in their original position.
  - Secure it using a tire tie-down belt. Otherwise, the flat tire may fly out in case of sudden braking or an accident, resulting in death or serious injury.

NOTICE

■ **Do not drive the vehicle with a flat tire.**

Do not continue driving with a flat tire.
Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair.

■ **Be careful when driving over bumps with the compact spare tire installed on the vehicle.**

The vehicle becomes lower when driving with the compact spare tire compared to when driving with standard tires. Be careful when driving over uneven road surfaces.

■ **Driving with tire chains and the compact spare tire**

Do not fit tire chains to the compact spare tire.
Tire chains may damage the vehicle body and adversely affect driving performance.

■ **When replacing the tires**

When removing or fitting the wheels, tires or the tire pressure warning valve and transmitter, contact your Lexus dealer as the tire pressure warning valve and transmitter may be damaged if not handled correctly.

■ **To avoid damage to the tire pressure warning valves and transmitters**

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer or other qualified service shop as soon as possible. Make sure to replace the tire pressure warning valve and transmitter when replacing the tire. (→P. 520)

If the hybrid system will not start

Reasons for the hybrid system not starting vary depending on the situation. Check the following and perform the appropriate procedure:

■ The hybrid system will not start even though the correct starting procedure is being followed. (→P. 169)

One of the following may be the cause of the problem:

- The electronic key may not be functioning properly.* (→P. 632)
- There may not be sufficient fuel in the vehicle's tank.
  Refuel the vehicle.
- There may be a malfunction in the immobilizer system.* (→P. 111)
- There may be a malfunction in the P position control system.* (→P. 172, 595)

*: It may not be possible to shift the shift position other than P.

■ The interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem:

- The 12-volt battery may be discharged. (→P. 635)
- The 12-volt battery terminal connections may be loose or corroded.

■ The interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem:

- One or both of the 12-volt battery terminals may be disconnected.
- The 12-volt battery may be discharged. (→P. 635)

  Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

Emergency start function

When the hybrid system does not start, the following steps can be used as an interim measure to start the hybrid system if the "POWER" switch is functioning normally:

STEP 1 Set the parking brake.

STEP 2 Turn the "POWER" switch to ACCESSORY mode.

STEP 3 Press and hold the "POWER" switch for about 15 seconds while depressing the brake pedal firmly.

Even if the hybrid system can be started using the above steps, the system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

If you lose your keys

New genuine keys can be made by your Lexus dealer using the other key and the key number stamped on your key number plate.

If the electronic key does not operate properly

If communication between the electronic key and vehicle is interrupted (→P. 63) or the electronic key cannot be used because the battery is depleted, the smart access system with push-button start and wireless remote control cannot be used. In such cases, the doors can be opened and the hybrid system can be started by following the procedure below.

Locking and unlocking the doors and key linked functions



Use the mechanical key (→P. 44) in order to perform the following operations:

1. Locks all the doors
2. Closes the windows* (turn and hold)
3. Unlocks the door

   Turning the key rearward unlocks the driver's door. Turning the key once again within 3 seconds unlocks the other doors.
4. Opens the windows* (turn and hold)

*: This setting must be customized at your Lexus dealer.

Changing “POWER” switch modes and starting the hybrid system

STEP 1 Depress the brake pedal.

STEP 2


Touch the Lexus emblem side of the electronic key to the “POWER” switch.

If any of the doors is opened or closed while the key is being touched to the switch, an alarm will sound to indicate that the start function cannot detect the electronic key.

STEP 3 To change “POWER” switch modes: Within 10 seconds of the buzzer sounding, release the brake pedal and press the “POWER” switch. Modes can be changed each time the switch is pressed. (→P. 170)

To start the hybrid system: Press the “POWER” switch within 10 seconds of the buzzer sounding, keeping the brake pedal depressed.

In the event that the hybrid system still cannot be operated, contact your Lexus dealer.

■ **Stopping the hybrid system**

Set the parking brake, shift the shift position to P and press the “POWER” switch as you normally do when stopping the hybrid system.

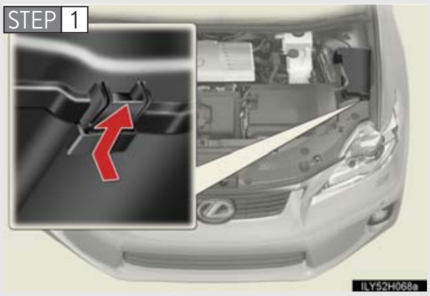
■ **Replacing the key battery**

As the above procedure is a temporary measure, it is recommended that the electronic key battery be replaced immediately when the battery is depleted. (→P. 539)

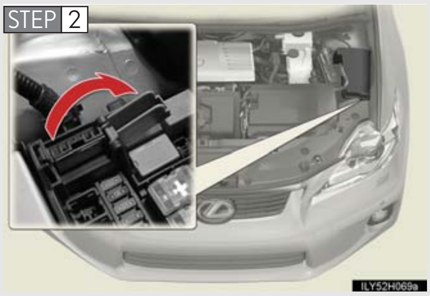
If the 12-volt battery is discharged

The following procedures may be used to start the hybrid system if the vehicle's 12-volt battery is discharged.
You can also call your Lexus dealer or a qualified repair shop.

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your vehicle by following the steps below.

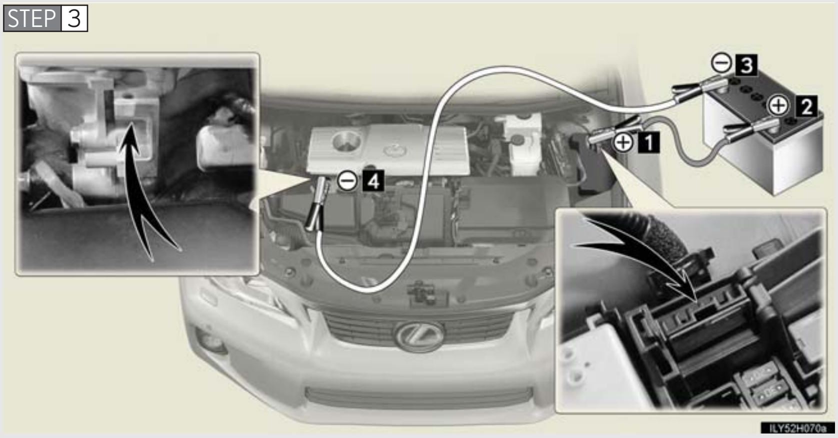


Open the hood and fuse block cover.



Open the exclusive jump starting terminal cover.

STEP 3



Connect the jumper cables according to the following procedure:

1. Connect a positive jumper cable clamp to the exclusive jump starting terminal on your vehicle.
2. Connect the clamp on the other end of the positive cable to the positive (+) battery terminal on the second vehicle.
3. Connect a negative cable clamp to the negative (-) battery terminal on the second vehicle.
4. Connect the clamp at the other end of the negative cable to a solid, stationary, unpainted metallic point away from the exclusive jump starting terminal and any moving parts, as shown in the illustration.

STEP 4 Start the engine of the second vehicle. Increase the engine speed slightly and maintain at that level for approximately 5 minutes to recharge the battery of your vehicle.

STEP 5 Open and close any of the doors of your vehicle with the "POWER" switch off.

STEP 6 Maintain the engine speed of the second vehicle and start the hybrid system of your vehicle by turning the "POWER" switch to ON mode.

STEP 7 Make sure the "READY" indicator light comes on. If the indicator light does not come on, contact your Lexus dealer.

STEP 8 Once the hybrid system has started, remove the jumper cables in the exact reverse order from which they were connected.

STEP 9 To install the engine cover, conduct the removal procedure in reverse. After installing, check that the fixed pins are inserted securely.

Once the hybrid system starts, have the vehicle inspected at your Lexus dealer as soon as possible.

- **Starting the hybrid system when the 12-volt battery is discharged**

  The hybrid system cannot be started by push-starting.

- **To prevent 12-volt battery discharge**
  - Turn off the headlights and the audio system while the hybrid system is off.
  - Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic.

- **When the 12-volt battery is removed or discharged**
  - The hybrid system may not start. (→P. 514)
  - If the 12-volt battery discharges while the shift position is in P, it may not be possible to shift the shift position to other positions. In this case, the vehicle cannot be towed without lifting both front wheels because the front wheels will be locked. (→P. 571)
  - When the 12-volt battery is reconnected, start the hybrid system and confirm that the shift position can be changed to each position using the shift position indicator.

⚠ CAUTION

- **Avoiding 12-volt battery fires or explosions**

  Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the 12-volt battery:
  - Make sure each jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any other than the intended terminal.
  - Do not allow the other end of the jumper cable connected to the "+" terminal to come into contact with any other parts or metal surfaces in the area, such as brackets or unpainted metal.
  - Do not allow the + and - clamps of the jumper cables to come into contact with each other.
  - Do not smoke, use matches, cigarette lighters or allow open flame near the 12-volt battery.

CAUTION

12-volt battery precautions

The 12-volt battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the 12-volt battery:

- When working with the 12-volt battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the 12-volt battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention.
  Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the battery support, terminals, and other battery-related parts.
- Do not allow children near the 12-volt battery.

NOTICE

When handling jumper cables

When connecting the jumper cables, ensure that they do not become entangled in the cooling fans or belt.

To prevent damaging the vehicle

The exclusive jump starting terminal is to be used when charging the 12-volt battery from another vehicle in an emergency. It cannot be used to jump start another vehicle.

If your vehicle overheats

The following may indicate that your vehicle is overheating:

- The high coolant temperature warning light comes on or flashes:
  The engine may be overheating.
- "HYBRID SYSTEM OVERHEAT" is shown on the multi-information display:
  The power control unit may be overheating.

Correction procedures

If the high coolant temperature warning light comes on or flashes

STEP 1 Stop the vehicle in a safe place and turn off the air conditioning system.

STEP 2 Check to see if steam is coming out from the engine area.

If you see steam:
Stop the hybrid system. Carefully lift the hood after the steam subsides and then restart the hybrid system.

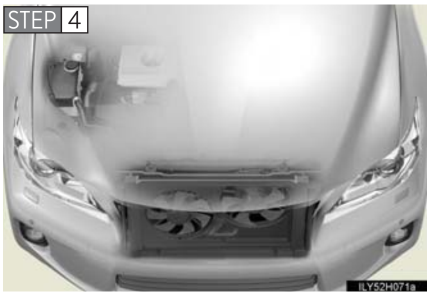
If you do not see steam:
Leave the hybrid system operating and carefully lift the hood.

STEP 3 Check to see if the cooling fans are operating.

If the fans are operating:
Wait until the high coolant temperature warning light goes off and then stop the hybrid system.

If the fans are not operating:
Stop the hybrid system immediately and call your Lexus dealer.

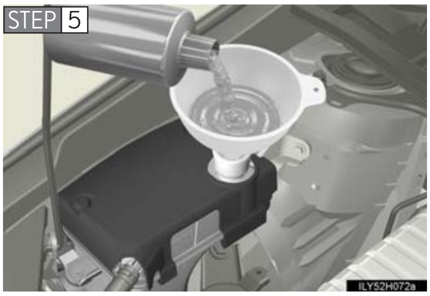
STEP 4



After the hybrid system has cooled down sufficiently, check the engine coolant level and inspect the cooling system for leaks.

If the engine compartment cover needs to be removed: →P. 499

STEP 5



Add engine coolant if necessary.

Water can be used in an emergency if engine coolant is unavailable. (→P. 657)

Have the vehicle inspected at the nearest Lexus dealer as soon as possible.

■ If "HYBRID SYSTEM OVERHEAT" is shown on the multi-information display

STEP 1 Stop the vehicle in a safe place and turn off the air conditioning system.

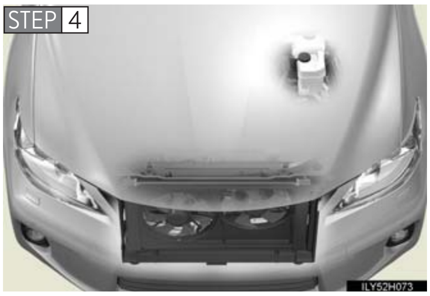
STEP 2 Leave the hybrid system operating and carefully lift the hood.

STEP 3 Check if the cooling fans are operating.

If the fans are operating:
Wait until the "HYBRID SYSTEM OVERHEAT" message disappears and then stop the hybrid system.
If the message does not disappear, call your Lexus dealer.

If the fans are not operating:
Stop the hybrid system immediately and call your Lexus dealer.

STEP 4



After the hybrid system has cooled down, check the power control unit coolant level and inspect the cooling system for leaks.

If the engine compartment cover needs to be removed: →P. 499

STEP 5



Add power control unit coolant if necessary.

Water can be used in an emergency if power control unit coolant is unavailable. (→P. 657)

Have the vehicle inspected at the nearest Lexus dealer as soon as possible.

Overheating

The following symptoms may occur when your vehicle is overheating:

- Hybrid system output decreases.
- Steam comes out from under the hood.

CAUTION

■ **To prevent an accident or injury when inspecting under the hood of your vehicle**

- If steam is seen coming from under the hood, do not open the hood until the steam has subsided. The engine compartment may be very hot, causing serious injuries such as burns.
- Check that the indicator on the "POWER" switch and the "READY" indicator are off.
- For vehicles with a hybrid system, there are times when the gasoline engine automatically starts to run or the cooling fans suddenly start to operate. Do not touch or approach the rotating parts of the belt or fans. Doing so may lead to fingers, clothes or tools getting caught, resulting in injury.
- Do not loosen the radiator cap, or the coolant reservoir cap while the hybrid system and radiator are hot.
  Serious injury, such as burns, may result from hot coolant and steam released under pressure.

NOTICE

■ **When adding engine/power control unit coolant**

Wait until the hybrid system has cooled down before adding engine/power control unit coolant.
When adding coolant, do so slowly. Adding cool coolant to a hot hybrid system too quickly can cause damage to the hybrid system.

If the vehicle becomes stuck

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt or snow:

STEP 1 Stop the hybrid system. Set the parking brake and shift the shift position to P.

STEP 2 Remove the mud, snow or sand from around the stuck tire.

STEP 3 Place wood, stones or some other material under the tires to help provide traction.

STEP 4 Restart the hybrid system.

STEP 5 Shift the shift position to D or R, release the parking brake and carefully apply the accelerator to free the vehicle.

CAUTION

When attempting to free a stuck vehicle

If you choose to push the vehicle back and forth to free it, make sure the surrounding area is clear to avoid striking other vehicles, objects or people. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

When changing the shift position

Be careful not to change the shift position with the accelerator pedal depressed. Changing the shift position to any positions other than P or N may cause the vehicle to accelerate abruptly, causing an accident and resulting in death or serious injury.

NOTICE

- **To avoid damage to the hybrid transmission and other components**
  - Avoid spinning the wheels and depressing the accelerator pedal more than necessary.
  - If the vehicle remains stuck even after these procedures are performed, the vehicle may require towing to be freed.

If your vehicle has to be stopped in an emergency

Only in an emergency, such as if it becomes impossible to stop the vehicle in the normal way, stop the vehicle using the following procedure:

STEP 1 Steadily step on the brake pedal with both feet and firmly depress it.

Do not pump the brake pedal repeatedly as this will increase the effort required to slow the vehicle.

STEP 2 Shift the shift position to N.

If the shift position is shifted to N

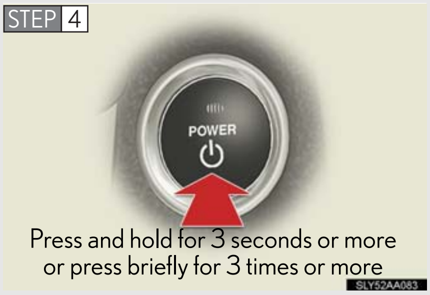
STEP 3 After slowing down, stop the vehicle in a safe place by the road.

STEP 4 Stop the hybrid system.

If the shift position cannot be shifted to N

STEP 3 Keep depressing the brake pedal with both feet to reduce vehicle speed as much as possible.

STEP 4



To stop the hybrid system, press and hold the "POWER" switch for 3 consecutive seconds or more, or press it briefly for 3 times or more in succession.

STEP 5 Stop the vehicle in a safe place by the road.

CAUTION

■ **If the hybrid system has to be turned off while driving**

Power assist for the brakes and steering wheel will be lost, making the brake pedal harder to depress and the steering wheel heavier to turn. Decelerate as much as possible before turning off the hybrid system.